

SIZE DESCRIPTION REMARKS SYM SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR OPENING IN FACE OF VERTICAL DUCT 5'-0" ABOVE FINISHED FLOOR IN LOCATION TO BE COORDINATED WITH THE ARCHITECT. ALARM BOX LOCATION FOR CABLES TO DROP OUT OF BOTTOM OF RACEWAY. MAGNET CABLE ACCESS LOCATION FOR CABLES TO DROP OUT OF BOTTOM OF RACEWAY. ELECTRONICS CABINETS 18" x 18" SEE POWER SCHEDULE, EMERGENCY POWER OFF BUTTONS, MOUNTED WITH CENTERLINE AT 5'-0" ABOVE FINISHED LOOR. ALL PARTS ARE TO BE NONFERROUS INSIDE THE RF ROOM. EXACT LOCATIONS ARE BE VERIFIED WITH THE ARCHITECT OF RECORD. SIEMENS RF FILTER PANEL TO BE MOUNTED ON RF SHIELDED WALL PULL BOX MOUNTED FLUSH WITH FINISHED WALL IN EQUIPMENT ROOM, MOUNTED 2'-0" ABOVE INTERFACE PANEL FINISHED FLOOR. PROVIDE NEATLY FINISHED AND REMOVABLE COVER WITH CABLE EXIT. EXACT LOCATION TO BE COORDINATED WITH THE ARCHITECT. MAIN ENCLOSURE WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY SEE POWER SCHEDULE CUSTOMER/CONTRACTOR. OPENING IN FACE OF RACEWAY IN SHOWN LOCATION. HOST COMPUTER NON-FERROUS SINGLE GANG BOX MOUNTED FLUSH WITH FINISHED WALL MOUNTED 6'-0" ABOVE MAGNET STOP FINISHED FLOOR. PROVIDE NEATLY FINISHED AND REMOVABLE COVER WITH CABLE EXIT. EXACT LOCATION TO BE COORDINATED WITH THE ARCHITECT. AS REQUIRED PULL BOX MOUNTED FLUSH WITH FINISHED WALL REFER TO HEIGHT CHART A-501-3. THE PATIENT SUPERVISION CAMERA PULL BOX CAN BE MOUNTED AT APPROXIMATELY 5'-O" ABOVE THE FINISHED FLOOR IN MOST CASES, DEPENDING ON THE DISTANCE FROM THE MAGNET TO THE WALL. AS REQUIRED PULL BOX MOUNTED ADJACENT TO WATER CHILLER PROVIDED WITH FLEX-TITE CONDUIT FROM PULL BOX TO KNOCK OUT PANEL ON CHILLER. COORDINATE WITH SIEMENS PROJECT MANAGER. ALUMINUM LADDER TRAY, MOUNTED AT HEIGHT COORDINATED WITH SIEMENS PROJECT MANAGER, CABLE TRAY IN THE EXAM ROOM, MAINTAINING 12" CLEARANCE ABOVE THE TRAY FOR ACCESS. CABLE SEE DETAIL E-501/2 LADDER IS REQUIRED TO SUPPORT INTERCONNECTING CABLES BETWEEN THE FILTER PANEL AND THE MAGNET. A 15" MINIMUM CLEARANCE IS REQUIRED BETWEEN THE LADDER TRAY AND THE RF FILTER PANEL (F1). WHEN ROUTING ALL RACEWAYS REFER TO DETAIL E-501/2 TAKING CARE SO THAT MAXIMUM CABLE LENGTHS ARE NOT EXCEEDED. DO NOT LOCATE THIS CABLE TRAY ALUMINUM LADDER TRAY, MOUNTED AT HEIGHT COORDINATED WITH SIEMENS PROJECT MANAGER | CABLE TRAY IN EXAM ROOM. A 12" SEPARATION BETWEEN CD1 AND CD2 MUST BE MAINTAINED. DO NOT SEE DETAIL E-501/2 LOCATE THIS CABLE TRAY ABOVE THE MAGNET. ALUMINUM LADDER TRAY, MOUNTED AT HEIGHT COORDINATED WITH SIEMENS PROJECT MANAGER CABLE TRAY IN EQUIPMENT ROOM MAINTAINING 12" CLEARANCE ABOVE THE TRAY FOR ACCESS. CABLE SEE DETAIL E-501/2 LADDER IS REQUIRED TO SUPPORT INTERCONNECTING CABLES BETWEEN THE EQUIPMENT ROOM AND THE RF FILTER PANEL (F1). AN 18" MINIMUM CLEARANCE IS REQUIRED BETWEEN THE LADDER TRAY AND THE FILTER PANEL. HORIZONTAL DUCT SURFACE MOUNTED ON WALL IN CONTROL AREA AT FLOOR LINE AS SHOWN, FINISHED TO MATCH WALLS. VERTICAL DUCT MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA FROM ABOVE FINISHED CEILING TO FLOOR LINE PROVIDED WITH REMOVABLE FINISHED COVERS. CONDUIT FROM FACILITY POWER TO MAIN ENCLOSURE (ME). EE POWER SCHEDULE, CONDUIT FROM "ME" TO "EPO". SEE POWER SCHEDULE, CONDUIT FROM "EPO" TO "EPO" TO BE NON-FERROUS WHEN INSIDE THE RF ROOM. CUSTOMER/CONTRACTOR IS TO PROVIDE RF FILTERS FOR ALL NON-SIEMENS WIRING. EE POWER SCHEDULE, CONDUIT FROM "ME" TO END AT "CD3" (EPC) VIA FLEX CONDUIT. THERE MUST BE A DIELECTRIC SEPARATION BETWEEN THE CONDUIT AND THE CONNECTION AT THE SIEMENS ACC (2) 2 1/2"ø CONDUIT FROM "VD1" (MRC) TO "CD3" (EPC). NOT TO EXCEED 54 FEET NOT TO EXCEED 60 FEET CONDUIT FROM "VD1" (AB) TO "CD3" (EPC). NOT TO EXCEED 60 FEET CONDUIT FROM "DS" TO "CD3" (EPC). NOT TO EXCEED 25 FEET NOT TO EXCEED 164 FEET CONDUIT FROM "WCH" TO "IFP". CONDUIT FROM FACILITY POWER TO "WCH". (1) 2"ø NON-FERROUS CONDUIT FROM "PSC" TO "CD1".

ELECTRICAL LEGEND

ı	CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION
ı	OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE
ı	PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER
ı	DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROJECT
ı	MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND
ı	PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY SMS PROJECT MANAGER.
ı	3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS MEDICAL
ı	SOLUTIONS EQUIPMENT SHALL BE DEDICATED SERVICES KEPT ENTIRELY
ı	FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING AND EQUIPMENT, SUCH AS: ELEVATORS, GENERATORS, PUMPS, HVAC SYSTEMS, ETC. THE
ı	CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER/UTILITY
ı	COMPANY FIELD REPRESENTATIVE.
ı	4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS MEDICAL SOLUTIONS BUT SHOWN ON DRAWINGS TO BE
ı	FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES THE
ı	FOLLOWING BUT IS NOT LIMITED TO UNLESS NOTED OTHERWISE:
ı	ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR
ı	SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS,
ı	LIGHTING EQUIPMENT AND GROUNDING.
ı	5) RACEWAY AND CONDUIT NOTES: ALL ITEMS IN THE MAGNET ROOM SHALL BE NON-FERROUS. RACEWAY SHALL BE ELECTRIC METALLIC TUBING
ı	(EMT) FOR RIGID CONDUIT WORK, OR WHERE SHORT OFF-SET
ı	CONNECTIONS ARE REQUIRED LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL
ı	BE USED. FIELD BENDS SHALL NOT BE LESS THAN AS SHOWN IN TABLE 346-10 OF THE NATIONAL ELECTRICAL CODE. PROVIDE A JETLINE "SUPER
ı	TRUE TAPE", OR EQUIVALENT CONDUIT MEASURING TAPE FISH LINE IN ALL
ı	RACEWAYS AND CONDUITS.
ı	CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR
ı	SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION.
ı	CONNECTORS SHALL BE DOUBLE SET SCREW TYPE, STEEL CONCRETE TIGHT.
ı	KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF
ı	FLUES OR STEAM AND HOT WATER PIPES, INSTALL RACEWAY RUNS ABOVE
ı	WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER
ı	FROM ENTERING RACEWAY.
ı	CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING
ı	THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE
ı	INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY
ı	CONDUIT/RACEWAY RUNS CONTAINING SIEMENS MEDICAL SYSTEMS CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE
ı	ELECTRICAL DETAILS.
ı	PROVIDE ENCLOSED METAL RACEWAY SYSTEM (WIRE DUCT) WHERE
ı	SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT (FOR
ı	POWER AND SIEMENS MEDICAL SOLUTIONS CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY, FOR UL CERTIFIED
ı	SYSTEMS, THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT
ı	SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM INVESTIGATION OF THIS EQUIPMENT. ADDITIONAL SEPARATION OF THE
ı	SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS,
ı	UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION
ı	OF CIRCUITS, AS THEY CAN BE IN THE SAME RACEWAY.  PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS.
ı	LOCATIONS OF OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE
ı	TO BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL
ı	BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS
	MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE
	DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.
	WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER
ı	THAN 14 FEET ABOVE FINISHED FLOOR, THE ÉLECTRICAL CONTRACTOR SHALL
	PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALL TEAM PULL SIEMENS SUPPLIED CABLES AT CUSTOMER EXPENSE.
ı	WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE
ı	A HARD CEILING (I.E. SHEET ROCK), A 24" x 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH 90 DEGREE
ı	ELBOW OR TEE IN WIRE DUCT/RACEWAY. THERE MUST BE FREE AND
ı	CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN
ı	ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES
ı	AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALL TEAM PULL SIEMENS SUPPLIED CABLES
ı	AT CUSTOMER EXPENSE.
ı	6) WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THHN-THWN, SINGLE CONDUCTOR ANNEALED
ı	COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 75° C (165° F).
	SIZED AS INDICATED. THE CUSTOMER/CONTRACTOR SHALL LEAVE MINIMUM
	10 FT. WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY SIEMENS MEDICAL
	SOLUTIONS.
	7) IN ADDITION TO THE CIRCUIT BREAKER LOAD CURRENT RATING,
	CONSIDERATION MUST ALSO BE GIVEN TO SELECTING CIRCUIT BREAKERS THAT HAVE A HIGH ENOUGH SHORT CIRCUIT CURRENT WITHSTAND RATING
	TO SAFELY COORDINATE WITH THE POWER SYSTEM AVAILABLE SHORT
	CIRCUIT CURRENT. GENERALLY, WHEN THE 480 VOLT, 3 PHASE, MR EQUIPMENT IS SERVED FROM A POWER SUPPLY SYSTEM THAT IS
	PROVIDED WITH A 500 KVA OR SMALLER TRANSFORMER, A STANDARD
	14,000 RMS AMPERE WITHSTAND RATED CIRCUIT BREAKER WILL BE
	ADEQUATE. HOWEVER, IF THE POWER SUPPLY SYSTEM TRANSFORMER IS LARGER THAN 500 kVA, THEN THE CIRCUIT BREAKERS HAVING A SHORT
	CIRCUIT WITHSTAND RATING GREATER THAN 14,000 RMS AMPERES MAY BE
1	REQUIRED.

**ELECTRICAL NOTES** 

) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE

LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY,

STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY TO ANSI, IEEE AND NEMA STANDARDS. WHERE APPLICABLE,

2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT TO

THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION

PROVIDE ONLY MATERIALS AND PRODUCTS THAT ARE U.L. LISTED AND LABELED. CUSTOMER'S/CONTRACTOR'S WORK SHALL COMPLY WITH THE

LATEST EDITION OF NECA STANDARD OF INSTALLATION.

ELECTRICAL RACEWAY PLAN

SCALE: 1/4" = 1'-0'

	SYMBOLS
	ALL MAY NOT APPLY
$\triangle$	CAUTION OR WARNING
i	CRITICAL NOTE(S)
	PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCHDUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
©S)	RF DOOR SWITCH — MCMASTER—CARR SUPPLY ROLLER LIMIT SWITCH 7076k14 PROVIDED BY CONTRACTOR, AND MOUNTED AT TOP OF DOOR. COORDINATE WITH SIEMENS PROJECT MANAGER.
Н	(EPO) EMERGENCY POWER OFF BUTTON
	CEILING DUCT
	SURFACE MOUNTED DUCT
$\bowtie$	VERTICAL DUCT
<b>•</b>	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SIEMENS PROJECT MANAGER).
$\ominus$	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET LOCATED NEAR THE ETHERNET CONNECTION.
	REV 1

CONTRACTOR SUPPLIED CABLES								
FROM	VIA	то	DESCRIPTION	REMARKS				
SOURCE	Î	МЕ	(3) PHASE CONDUCTORS, (1) FULL SIZE EQUIPMENT GROUND WIRE TO BE SIZED BY ELECTRICAL CONTRACTOR/ENGINEER.					
ME	2	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.					
EPO	3	EPO	DETERMINED BY ELECTRICAL CONTRACTOR.					
ME	4,CD3	EPC	(3) 2/0 AND (1) 2/0 EQUIPMENT GROUND. TO REDUCE EMI (INTERFERENCE) THE POWER CABLES MUST BE SHIELDED. THIS CAN BE ACHIEVED BY USING EMT, WHICH IS CONSIDERED A SHIELDING DEVICE. IF CABLES ARE RUN IN FREE AIR SHIELDED CONDUCTORS MUST BE USED.					
WCH	9	IFP	DATA CABLE PROVIDED BY SIEMENS, INSTALLED BY CONTRACTOR.					
SOURCE	10	WCH	(3) PHASE CONDUCTORS, (1) FULL SIZE EQUIPMENT GROUND WIRE TO BE SIZED BY ELECTRICAL CONTRACTOR/ENGINEER.					

CEILING HEIGHTS MAGNET EXAMINATION ROOM: 7-11" MINIMUM EQUIPMENT ROOM: 7'-3" MINIMUM WITH RESTRICTION ALL ANCILLARY AREAS: 6'-11" MINIMUM

			TEL: (317) VMAIL: FAX:	NAGER: TRENT CHILDRES ) 341-1094 EXT: .childress@siemens.com	SS	SIEMENS		
			С		3200 VINE STREET, C	CINCINNATI, OH 4522 TOM SKYRA W/MOBILE		
$\triangle$	11/03/15	CHANGED ISO CENTER LOCATION PER CUSTOMER		OR REPRODUCTION OF LE BLOCK WITHOUT	PROJECT #:		SHEET:	
$\triangle$	10/22/15	R101R(B) DATED 09/29/15 APPROVED BY CUSTOMER FOR FINALS	DECLUT IN	AUTHORIZATION WILL PROSECUTION UNDER TENT OF THE LAW.	1400	8880	<b>□</b> 101	1 1
SYM	DATE	DESCRIPTION	ALL RIGH	ITS ARE RESERVED.	SHEET OF 6 10	DRAWN BY: R. SUTHERS		
			00415	055 11	DATE		1950 SEXAN	Veroes

REF. #: 30182993

10/30/2015

AS NOTED

ATTENTION:

Date

80

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN 

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

Drawing Title

VENDOR EQUIPMENT (FOR REFERENCE ONLY)

Approved: Project Director

-ISSUE BLOCK-

Project Title **Building 01-Imaging Center** 

PFB

PFB

Cincinnati, Ohio

VA Project No. 539-CSI-201 PFB Project No. 3585.00 Building Number 01- Imaging Center Drawing Number

QH-006

Construction and Facilities Management Department of Veterans Affair

Office of

<sup>°°</sup> JEFFREY A. EVANS 9410768,





CONSULTANTS:

PFB Architects,Inc.

(513) 861 3200